

# Phase 1 - Deployment Architecture

## Two-Tier Architecture

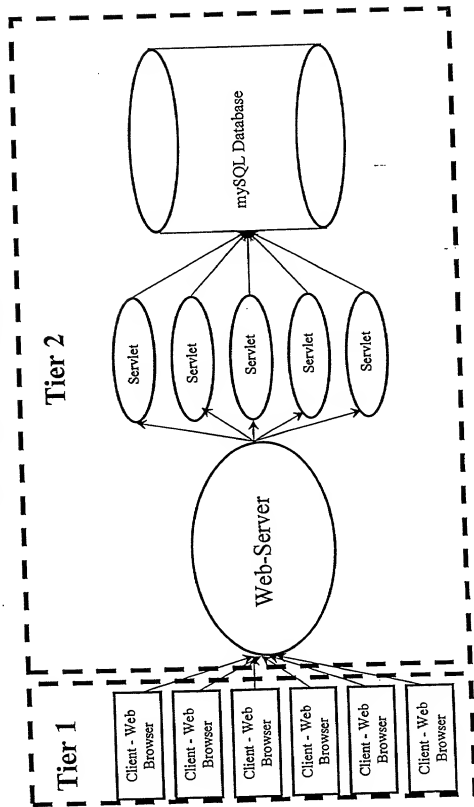


FIG. 1

# Phase 3 - Growth Architecture

## N-Tier Architecture

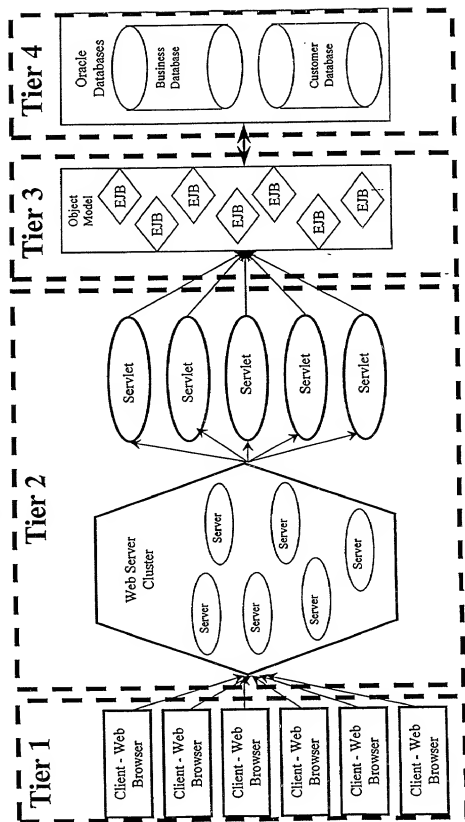
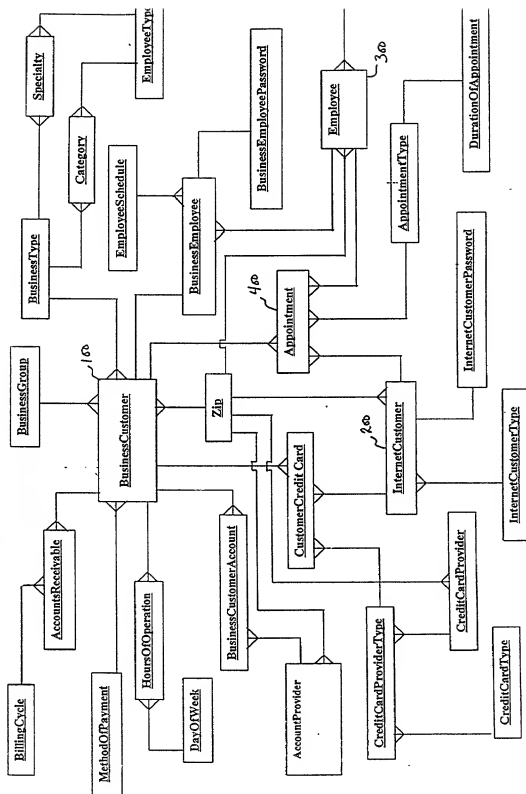


FIG 3

FIG. 4

Overview of Database Entity Relationship Model





The diagram is an Entity-Relationship (ER) model for a business system. It includes the following entities and their attributes:

- BusinessType** (Entity):
  - Attributes: BusinessTypeID, CategoryID, SpecialtyID
- Specialty** (Entity):
  - Attributes: SpecialtyID, SpecialtyDesc
- EmployeeSchedule** (Entity):
  - Attributes: EmployeeScheduleID, BusinessEmployeeID, Date, StartTime, EndTime
- BusinessEmployee** (Entity):
  - Attributes: BusinessEmployeeID, BusinessCustomerID, EmployeeID
- Category** (Entity):
  - Attributes: CategoryID, Category
- EmployeeType** (Entity):
  - Attributes: EmployeeTypeID, CategoryID, SpecialtyID
- BusinessCustomer** (Entity):
  - Attributes: BusinessCustomerID, BusinessType, EmployeeSchedule, BusinessEmployee, Appointment, InternetCustomer
- BusinessEmployeePassword** (Entity):
  - Attributes: BusinessEmployeePasswordID, BusinessEmployeeID, BusinessEmployeePassword
- Appointment** (Entity):
  - Attributes: AppointmentID, Time, Date, BusinessID, EmployeeID, InternetCustomerID, NumberInParty, AppointmentTypeID
- Employee** (Entity):
  - Attributes: EmployeeID, EmployeeTypeID, LastName, FirstName, MiddleName, SSN, Street, Zip, ZipPlus4, Telephone, Telephone2, Fax, Email
- InternetCustomer** (Entity):
  - Attributes: InternetCustomerID, Appointment
- AppointmentType** (Entity):
  - Attributes: AppointmentTypeID, AppointmentType
- DurationOfAppointment** (Entity):
  - Attributes: DurationOfAppointmentID, AppointmentTypeID, NumOfMinutes

Relationships and Cardinalities:

- BusinessType** and **Specialty**: "specifically describes" (1:M)
- BusinessType** and **Category**: "generally describes" (1:M)
- Specialty** and **EmployeeType**: "specifically describes" (1:M)
- Category** and **EmployeeType**: "generally describes" (1:M)
- BusinessType** and **EmployeeSchedule**: "describes" (1:M)
- BusinessEmployee** and **EmployeeSchedule**: "relates to" (1:M)
- BusinessEmployee** and **BusinessCustomer**: "works for" (1:M)
- BusinessEmployee** and **BusinessEmployeePassword**: "validates" (1:M)
- BusinessEmployee** and **Appointment**: "listed on" (1:M)
- BusinessCustomer** and **Appointment**: "listed on" (1:M)
- BusinessCustomer** and **InternetCustomer**: "listed on" (1:M)
- Appointment** and **AppointmentType**: "listed on" (1:M)
- Appointment** and **Employee**: "listed on" (1:M)
- Appointment** and **DurationOfAppointment**: "relates to" (1:M)
- Employee** and **EmployeeType**: "describes" (1:M)
- Employee** and **Zip**: "must be located in" (1:M)

Cardinalities are indicated by numbers near the relationship lines: 1, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

FIG. 6

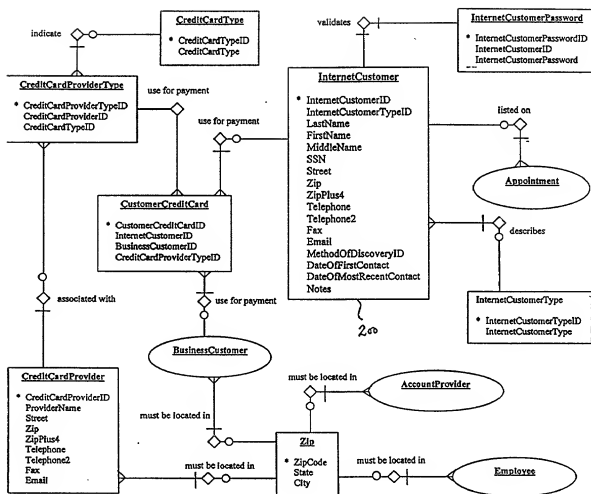


FIG. 7

*Internet Customer (Premium) Applet*

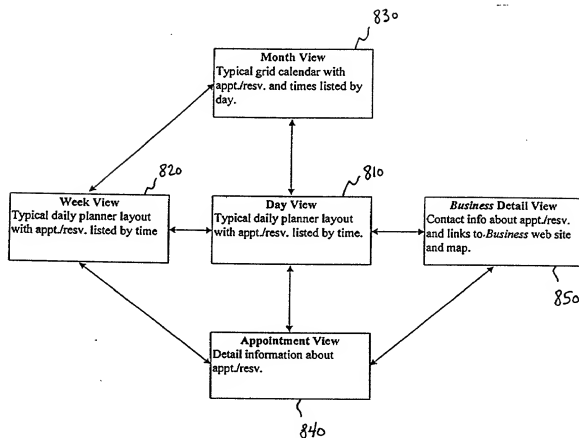


FIG. 8

*Business Applet*

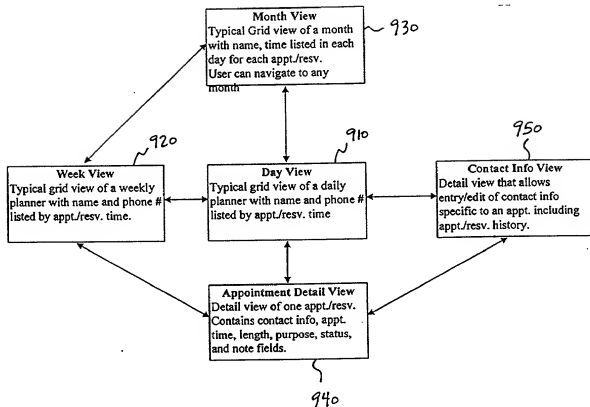


FIG. 9



# *Internet Customer Start for making Appt./Resv.*

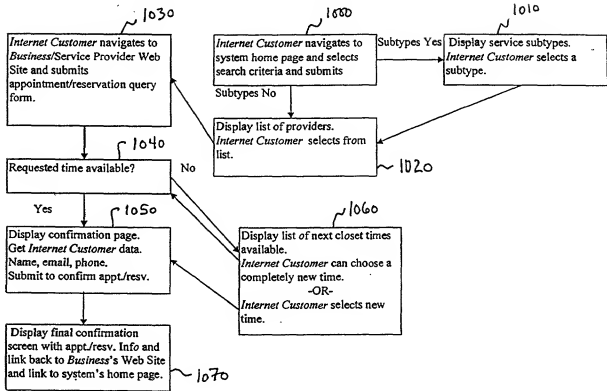


Fig. 10

**Reservations-Today.com™**

Search for Services and Make On-Line Real Time Reservations

1110

- Are you pressed for time?
- Do you hate navigating voice menus?
- Are you tired of being put on hold while you wait to make a reservation?

1120

Reservations-Today.com will save you time and money by:

- Locating services for you
- Making a reservation for those services
- Showing you an immediate confirmation of your reservation
- Reminding you of your reservations by e-mail
- Providing alternatives if the time requested is not available

Where you would like to make a reservation?

City

Country

Type of Service

State

Zip

Accountant

1150

1160

Fig. 11